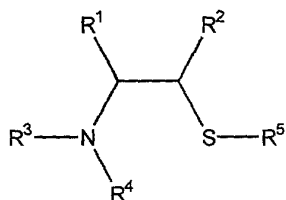
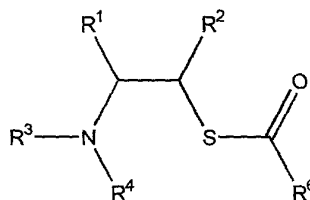


WHAT IS CLAIMED IS:

1. An aminothiols compounds and their acylated derivatives thereof, having general formula I and formula II, respectively,



I



II

wherein R¹-R⁶ are substitutable ligands.

2. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R¹ is aryl.

3. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R¹ is alkyl of C1-C9.

4. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R² is aryl.

5. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R² is alkyl of C1-C9.

6. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R³ is alkyl of C1-C9.

7. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R⁴ is alkyl of C1-C9.

8. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R⁵ is H.

9. The aminothiols compounds and acylated derivatives thereof as

claimed in claim 1, wherein R⁵ is alkyl of C1-C6.

10. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R⁶ is H.

11. The aminothiols compounds and acylated derivatives thereof as
5 claimed in claim 1, wherein R⁶ is alkyl of C1-C6.

12. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R³, R⁴ and N form a cycle.

13. The aminothiols compounds and acylated derivatives thereof as
10 claimed in claim 12, wherein R³, R⁴ and N form a three-to-eight-membered heterocycle.

14. The aminothiols compounds and acylated derivatives thereof as claimed in claim 12, wherein R³, R⁴, O and N form a ring by means of morpholine.

15. The aminothiols compounds and acylated derivatives thereof as
15 claimed in claim 1, wherein R³, R⁴, O and N form a ring by means of morpholine.

16. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, which are chiral ligands capable of reacting with organic metal compounds to form metal complexes and then react with
20 carbonyl to produce alkylmetal in asymmetric addition reactions.

17. The aminothiols compounds and acylated derivatives thereof as claimed in claim 16, wherein said carbonyl compound is aldehyde.

18. The aminothiols compounds and acylated derivatives thereof as claimed in claim 16, wherein said carbonyl compound is ketone.

25 19. The aminothiols compounds and acylated derivatives thereof as

claimed in claim 16, wherein said organic metal is Zn, Cu, or Ti.

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